

2/19/23  
DIALOG(R)File 347:JAPIO  
(c) 2003 JPO & JAPIO. All rts. reserv.

05886687    \*\*Image available\*\*  
WATER PUMP SEALING DEVICE

PUB. NO.:        10-169787 [JP 10169787 A]  
PUBLISHED:      June 26, 1998 (19980626)  
INVENTOR(s):    YAMAMOTO KAZUTOSHI  
                 SHIRAI YOSHIMASA  
APPLICANT(s):   KOYO SEIKO CO LTD [000124] (A Japanese Company or  
                 Corporation), JP (Japan)  
APPL. NO.:      08-340594 [JP 96340594]  
FILED:          December 05, 1996 (19961205)  
INTL CLASS:     [6] F16J-015/32 ; F16C-033/76  
JAPIO CLASS:    22.1 (MACHINERY -- Machine Elements); 14.2 (ORGANIC CHEMISTRY  
                 -- High Polymer Molecular Compounds); 24.1 (CHEMICAL  
                 ENGINEERING -- Fluid Transportation)

ABSTRACT

PROBLEM TO BE SOLVED: To improve the sealing ability and easily do assembling work.

SOLUTION: A water pump sealing device has the first seal member 7 made of rubber and integrally molded at one end of a metal core 7a with a lip 7b facing a water pump chamber on the surface of a water pump shaft 1, the second seal member 8 made of polyethrafluoroethylene resin and fitted to the inner diameter of the core 7a of the first seal member 7 with a lip 8a facing the water pump chamber on the surface of the water pump shaft 1, a metal backup ring 9 provided with a cylindrical portion 9a at the outer-diameter end and fitted to the inner diameter of the core 7a of the first seal member 7 with the cylindrical portion 9a facing a bearing 3 to hold the second seal member 8 in a space to the first seal member 7 and a metal ring 10 pressed and fixed into the inner periphery of the cylindrical portion 9a of the backup ring 9. The end of the first seal member 7 is bent to the ring 10 side to form the first seal member, the second seal member, the backup ring and the ring in one unit for mounting and fixing the ring 10 to the inner periphery at the outer ring end of the bearing 3.

C:\Program Files\Dialog\DialogLink\Graphics\1B.bmp

